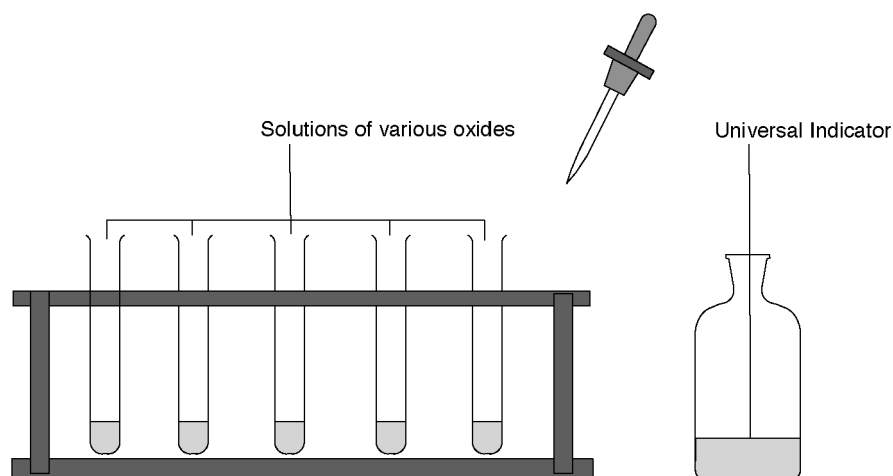


IGCSE chemistry section 2a testing the pH of oxides

Introduction

In this experiment the pH of various oxides is tested.



What to record

Name of oxide	Colour of Universal Indicator	pH value	Acid, alkali or neutral
Nitrogen oxide			
Sodium oxide			
Potassium oxide			
Phosphorus(V) oxide			
Calcium oxide			

What to do

1. Using separate test-tubes, collect a sample (about 2 cm³) of each oxide in water.
2. Add three drops of Universal Indicator solution to each sample.
3. Record the results in a table showing the oxide, the colour of the Universal Indicator, the pH and whether the oxide is acidic, alkaline or neutral in water.

Safety

Wear eye protection

Questions

1. Which compounds in the table are metal oxides?
2. Comment on your results for the metal oxides?
3. Some metal oxides do not react with water. Predict the pH of these compounds.